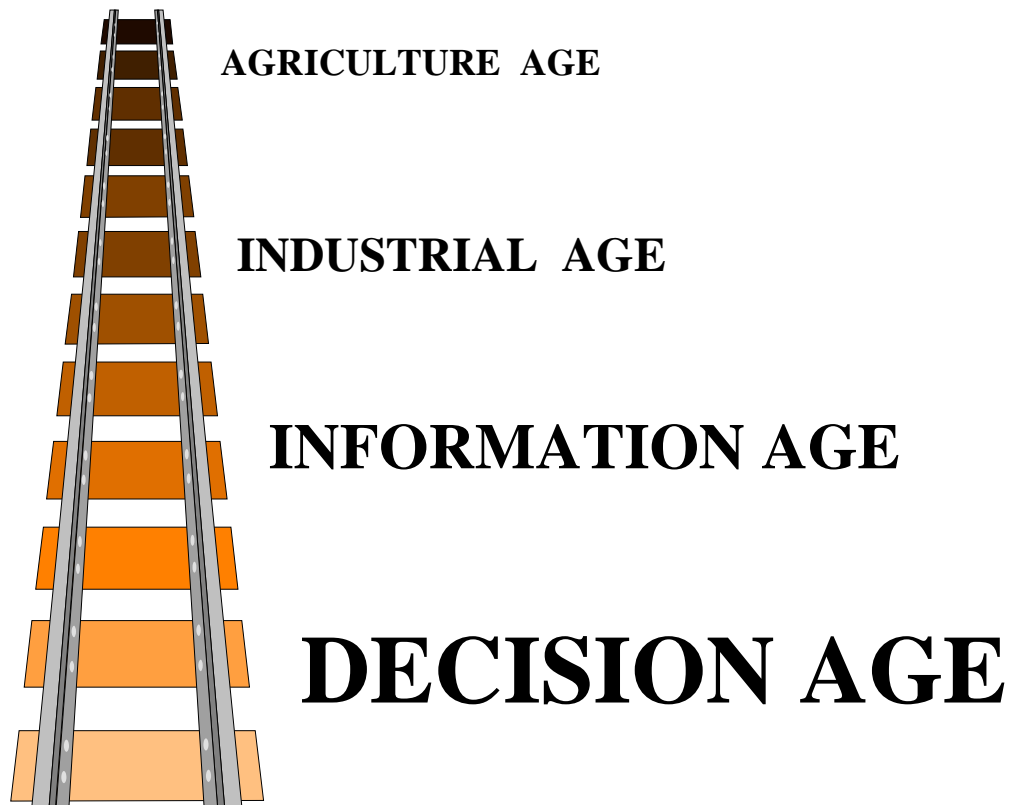


# **JOINT ANALYSIS IN THE “DECISION AGE”**

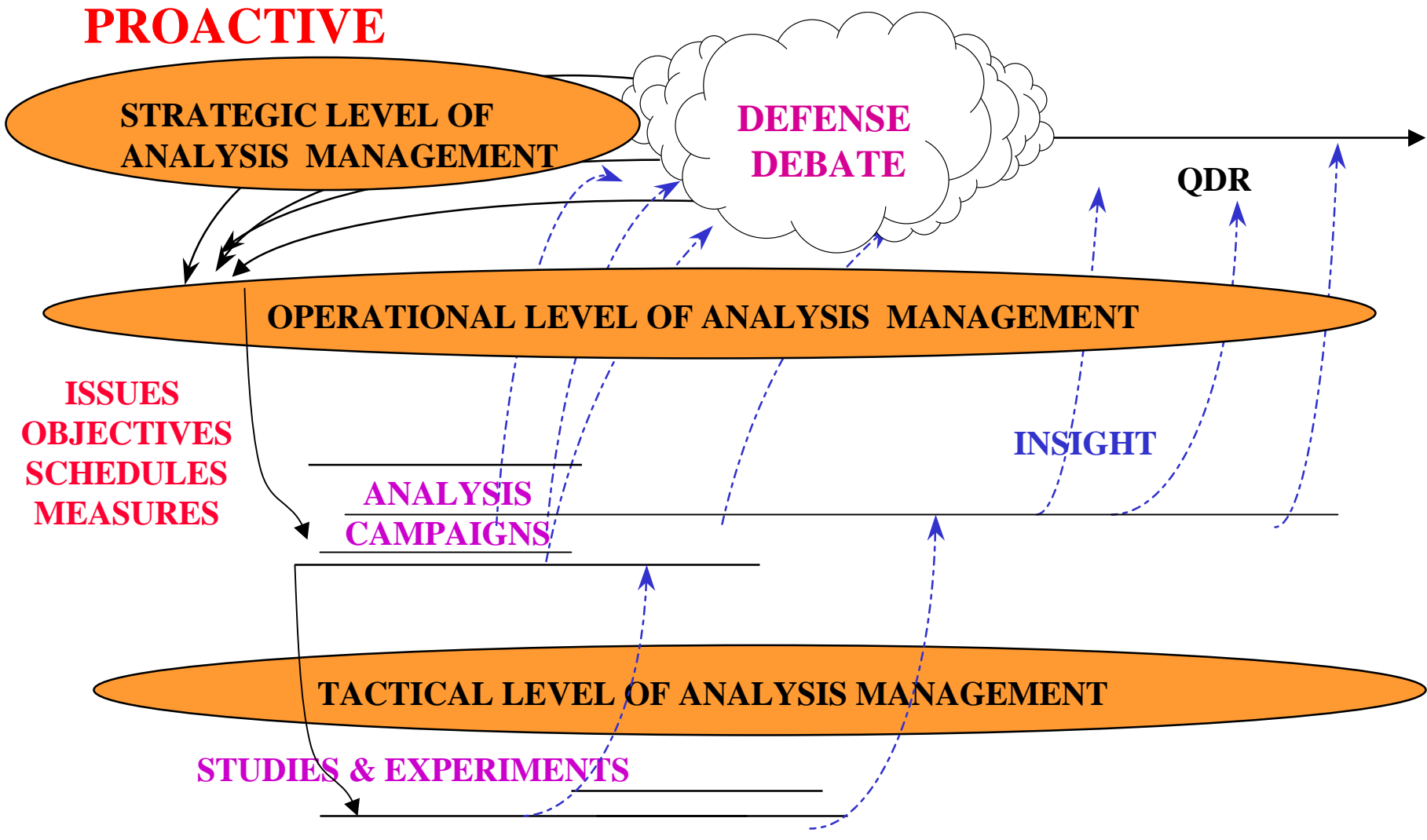


**Vince Roske  
Deputy Director, J8**

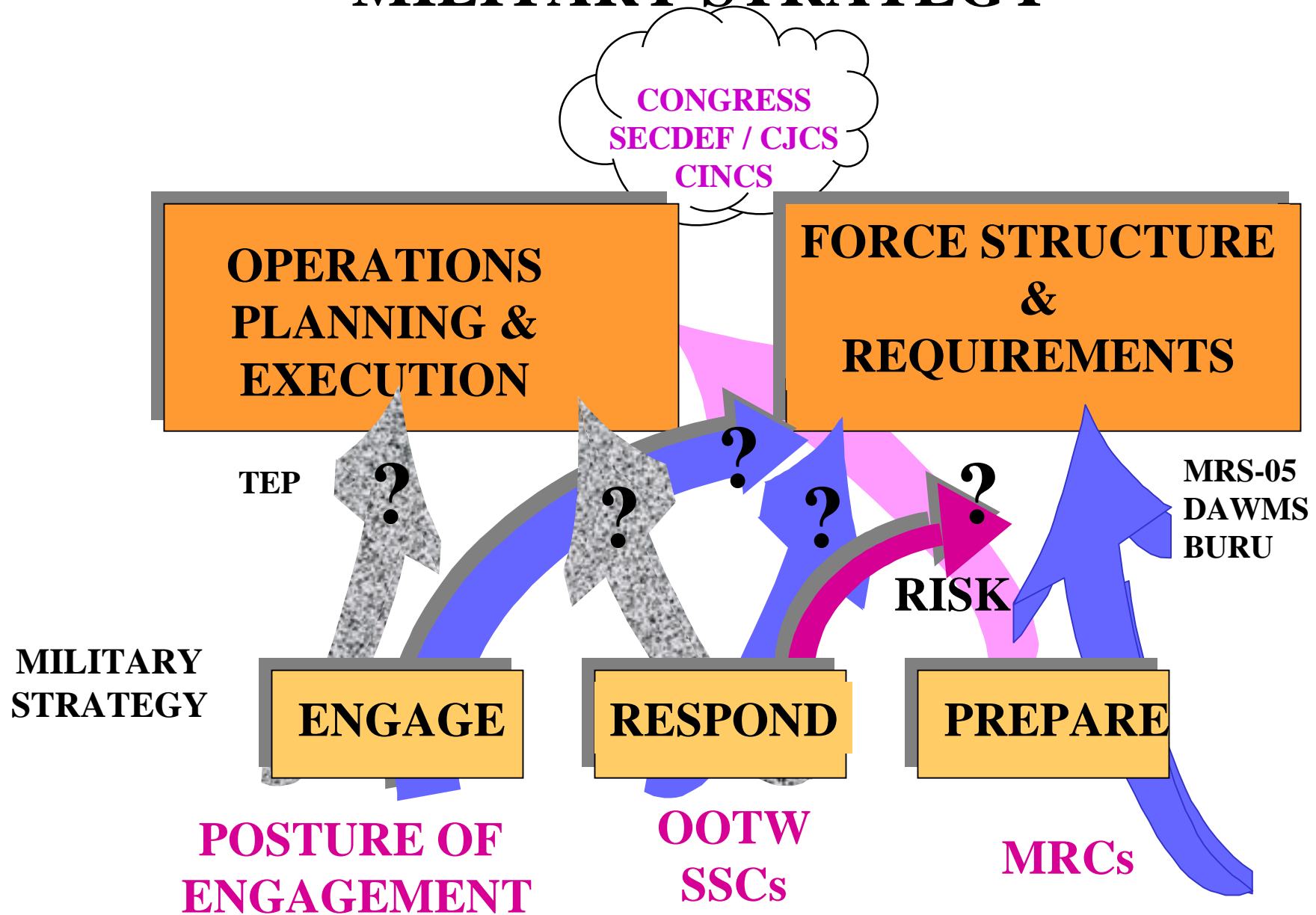
# EMERGENT THEMES IN DEFENSE ANALYSIS

1. **MANAGE** ANALYSES TO BETTER SERVE  
AND SHAPE THE “DEFENSE DEBATE”.  
(BECOME PROACTIVE, COLLABORATIVE, AND STEADY STATE)
2. **PROVIDE** ANALYSIS SUPPORT TO THE  
FULL NATIONAL MILITARY STRATEGY.  
(2/3 OF STRATEGY IS POORLY SUPPORTED BY ANALYSIS)
3. **IMPROVE** THE EFFECTIVENESS AND EFFICIENCY  
OF JOINT STUDIES.  
(USE AN ANALYSIS RECIPE)
4. **EXPLOIT** TECHNOLOGY TO IMPROVE ANALYSIS  
RESPONSIVENESS.  
(BECOME “DECISION AGE” ANALYSTS)

# 1. IMPROVING ANALYSIS MANAGEMENT



## 2. ANALYSIS SUPPORTING THE MILITARY STRATEGY



# 3. IMPROVING EFFICIENCY & EFFECTIVENESS

## THE ANALYSIS RECIPE

-WHAT'S THE QUESTION?

GAMING

-WHAT'S THE REAL QUESTION?

VISUALIZATION

-WHAT DO THE FINAL SLIDES LOOK LIKE?

-WHAT DO WE ALREADY KNOW?

DATA MINING

-HOW DO WE GET THE MISSING INFORMATION?

TOOLS  
M&S

# 4. EXPLOITING TECHNOLOGY

ISSUES ARE EXTREMELY COMPLEX AND DYNAMIC.

-CANNOT HUSBAND IN ONE PLACE ALL THE  
EXPERTISE NEEDED TO BE COMPETENT.

(OUTREACH & COLLABORATION IS REQUIRED)

TRADITIONAL M&S CANNOT KEEP PACE WITH THE  
COMPLEXITY OR THE DYNAMICS (MODEL & WORLD)

(NEW, FAST, METHODS, TOOLS & SKILLS ARE NEEDED)

**CHALLENGE !!**

-WHAT DOES IT MEAN TO DO ANALYSIS  
IN THE ‘INFORMATION AGE’?

IN THE ‘DECISION AGE’?

# CHARACTERISTICS OF DECISION AGE ANALYSIS ORGANIZATIONS

- PRODUCE **PROACTIVE** ANALYSIS.
- APPLY **CURRENT AND EVOLVING INFORMATION**.
- FOCUS ON **“TOTAL SYSTEM”** BEHAVIOR.
  - POLITICAL, SOCIAL, ECONOMIC , MILITARY
  - “SYSTEM BEHAVIORS” INCLUDE:
    - HISTORY, TRENDS, EMERGENT BEHAVIOR
    - UNINTENDED/UNEXPECTED CONSEQUENCES
- EMPOWER **AGILITY**.
  - IN THINKING
  - IN METHODOLOGY
  - IN ORGANIZATION AND SKILLS.

# **NEW ANALYSIS FUNCTIONS & MANNING**

- CURRENT INFORMATION ACCESS**
  - OPEN SOURCE - THE WEB**
  - CLASSIFIED - INTEL**
  - INFORMATION RESEARCH SUPPORT**
- DATA MINING CAPABILITY**
- FAST QUANTITATIVE ANALYSIS TECHNIQUES**
- COGNITIVE AND SUBJECTIVE ANALYSIS METHODS.**
- KNOWLEDGE MANAGEMENT PROCESSES**

## **OPERATED BY:**

- WEB TECHNICIANS / SURFERS**
- LIBRARY SCIENTISTS**
- GRAPHICS ANALYSTS**
- SOCIO SYSTEMS ANALYSTS**
- KNOWLEDGE MANAGERS**
- ORSAs**



# JOINT ANALYSIS ACTIVITIES

## CATEGORY I (RECURRING HIGH PAYOFF TO J8)

- A. STUDIES MANAGEMENT (VALUE, FOLLOW UP)
- B. STUDIES DESIGN SUPPORT (COLLABORATION )
  - "ICON" STUDIES DATA BASE
  - "GAME/ANALYZE/GAME" METHODOLOGY

## CATEGORY II (CLEAR PAYOFF FOR JOINT ANALYSIS)

- C. DATA MINING
  - ENGAGEMENT, RESPONSE
- D.. VIRTUAL INFORMATION CENTERS
  - COLLABORATIVE EXPERTISE / ACCESS
- E. INFLUENCE DIAGRAMMING
  - RATIONALE FOR PREPARATION OF OPEN SOURCE
  - ENGAGEMENT & RESPONSE ANALYSIS.
- F. FAST TOOLS (SUBJECTIVE & VISUALIZATION & SIMULATION )

## CATEGORY III (POTENTIAL FOR HIGH PAYOFF-INVESTIGATE)

- G. DOCUMENT ANALYSIS
  - ISSUES IDENTIFICATION
- H. COMPLEX ADAPTIVE SYSTEMS ANALYSIS METHODOLOGY
- I. LPs FOR FORCE; OPS CONCEPTS ; C4ISR TRADEOFFS